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TI HYDROGEN STORAGE ALLOY AND HYDROGEN STORAGE ALLOY ELECTRODE
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PA MATSUSHITA ELECTRIC IND CO LTD
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AB PROBLEM TO BE SOLVED: To provide a hydrogen storage alloy electrode having excellent cycle characteristics by improving a hydrogen storage alloy of TiVNi type, having a body-centered cubic structure.
SOLUTION: This alloy is a hydrogen storage alloy which has a composition represented by the formula, Ti<SB>x</SB>V<SB>y</SB>M<SB>z</SB>Ni<SB>1-x-y-z</SB> (where M means at least one element selected from the group consisting of Co, Fe, Cu, and Ag and 0.2<=x<=0.4, 0.3<=y<0.7, 0.1<=z<=0.3, and 0.6<=x+y+z<=0.95 are satisfied) and in which the essential component of alloy phase has a body-centered cubic structure. Further, this hydrogen storage alloy contains at least one element selected from the group consisting of Cr, Mo, W, Al, Mn, Zn, Zr, Hf, Si, B, P, S, and rare earth elements by <=5atom% per element based on the total content.